WEST Search History

Hide Items Restore Clear Cancel

DATE: Thursday, December 20, 2007

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	L8	L7 and crosslink\$	9
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Γ	L5	L4 and crosslink\$	5
Γ	L4	L3 and (intervertebral or scoliosis)	28
Г	L3	514/23.icls. or 514/23.ccls. or 514/456.icls. or 514/456.ccls. or 536/1.11.icls. or 536/1.11.ccls. or 549/39c.icls. or 549/396.ccls. or 549/398.icls. or 549/399.icls. or 549/399.ccls. or 549/406.icls. or 549/406.ccls.	6022
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FILE 'HCAPLUS' ENTERED AT 15:56:10 ON 20 DEC 2007
         291173 S CROSSLINK?
L1
           3566 S GENEPIN OR PROANTHOCYANIDIN OR THREOSE OR (LYSYL OXIDASE)
L2
          77240 S INTERVERTEBRAL OR SPINE OR SPINAL OR SCOLEOSIS
L3
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     FILE 'HCAPLUS' ENTERED AT 15:57:15 ON 20 DEC 2007
           3922 S GENIPIN OR PROANTHOCYANIDIN OR THREOSE OR (LYSYL OXIDASE)
L10
             23 S L10 AND L3
L11
             12 S L1 AND L10 AND L3
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L19

=> file hcaplus
COST IN U.S. DOLLARS

FULL ESTIMATED COST

SINCE FILE TOTAL ENTRY SESSION 0.84 0.84

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FILE COVERS 1907 - 20 Dec 2007 VOL 147 ISS 26 FILE LAST UPDATED: 19 Dec 2007 (20071219/ED)

New CAS Information Use Policies, enter HELP USAGETERMS for details.

This file contains CAS Registry Numbers for easy and accurate substance identification.

=> s crosslink?

L1 291173 CROSSLINK?

=> s genepin or proanthocyanidin or threose or (lysyl oxidase)

4 GENEPIN

1901 PROANTHOCYANIDIN

581 THREOSE

6882 LYSYL

126102 OXIDASE

1085 LYSYL OXIDASE

(LYSYL(W)OXIDASE)

L2 3566 GENEPIN OR PROANTHOCYANIDIN OR THREOSE OR (LYSYL OXIDASE)

=> s intervertebral or spine or spinal or scoleosis

2402 INTERVERTEBRAL

8448 SPINE

70537 SPINAL

0 SCOLEOSIS

L3 77240 INTERVERTEBRAL OR SPINE OR SPINAL OR SCOLEOSIS

=> s 11 and 13

L4 403 L1 AND L3

=> s 12 and 13

L5 22 L2 AND L3

=> s 11 and 12 and 13

L6 11 L1 AND L2 AND L3

=> s 14 and (PY<2002 or AY<2002 or PRY<2002)

21937278 PY<2002 4194000 AY<2002 3671084 PRY<2002

L7 187 L4 AND (PY<2002 OR AY<2002 OR PRY<2002)

=> s 15 and (PY<2002 or AY<2002 or PRY<2002)

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=> s 16 and (PY<2002 or AY<2002 or PRY<2002)

21937278 PY<2002 4194000 AY<2002 3671084 PRY<2002

L9 7 L6 AND (PY<2002 OR AY<2002 OR PRY<2002)

=> file stnguide

COST IN U.S. DOLLARS
SINCE FILE TOTAL
ENTRY SESSION
FULL ESTIMATED COST
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3.44

FILE 'STNGUIDE' ENTERED AT 15:56:25 ON 20 DEC 2007 USE IS SUBJECT TO THE TERMS OF YOUR CUSTOMER AGREEMENT COPYRIGHT (C) 2007 AMERICAN CHEMICAL SOCIETY (ACS)

FILE CONTAINS CURRENT INFORMATION.
LAST RELOADED: Dec 18, 2007 (20071218/UP).

=> file hcaplus
COST IN U.S. DOLLARS

SINCE FILE TOTAL
ENTRY SESSION
0.06 3.50

FULL ESTIMATED COST

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FILE COVERS 1907 - 20 Dec 2007 VOL 147 ISS 26 FILE LAST UPDATED: 19 Dec 2007 (20071219/ED)

New CAS Information Use Policies, enter HELP USAGETERMS for details.

This file contains CAS Registry Numbers for easy and accurate substance identification.

=> s genipin or proanthocyanidin or threose or (lysyl oxidase)

369 GENIPIN

1901 PROANTHOCYANIDIN

581 THREOSE

6882 LYSYL

126102 OXIDASE

1085 LYSYL OXIDASE

(LYSYL (W) OXIDASE)

L10 3922 GENIPIN OR PROANTHOCYANIDIN OR THREOSE OR (LYSYL OXIDASE)

=> s 110 and 13

L11 23 L10 AND L3

=> s 11 and 110 and 13

L12 12 L1 AND L10 AND L3

=> s 113 and (PY<2002 or AY<2002 or PRY<2002)

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=> s 114 and (PY<2002 or AY<2002 or PRY<2002)

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=> file stnguide

COST IN U.S. DOLLARS

SINCE FILE TOTAL ENTRY SESSION

2.60

FULL ESTIMATED COST

FILE 'STNGUIDE' ENTERED AT 15:57:21 ON 20 DEC 2007 USE IS SUBJECT TO THE TERMS OF YOUR CUSTOMER AGREEMENT COPYRIGHT (C) 2007 AMERICAN CHEMICAL SOCIETY (ACS)

FILE CONTAINS CURRENT INFORMATION.
LAST RELOADED: Dec 18, 2007 (20071218/UP).

=> file caplus

COST IN U.S. DOLLARS

SINCE FILE

TOTAL

6.10

FULL ESTIMATED COST

ENTRY SESSION 0.06 6.16

FODE ESTIMATED COST

FILE 'CAPLUS' ENTERED AT 15:57:30 ON 20 DEC 2007 USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT. PLEASE SEE "HELP USAGETERMS" FOR DETAILS. COPYRIGHT (C) 2007 AMERICAN CHEMICAL SOCIETY (ACS)

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FILE LAST UPDATED: 19 Dec 2007 (20071219/ED)
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L13 NOT FOUND
The L-number entered could not be found. To see the definition
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=> s 110 and (PY<2002 or AY<2002 or PRY<2002)
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           581 THREOSE
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        126102 OXIDASE
          1085 LYSYL OXIDASE
                 (LYSYL(W)OXIDASE)
      21937278 PY<2002
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L13
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           369 GENIPIN
          1901 PROANTHOCYANIDIN
           581 THREOSE
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        126102 OXIDASE
          1085 LYSYL OXIDASE
                 (LYSYL(W)OXIDASE)
          2402 INTERVERTEBRAL
          8448 SPINE
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             0 SCOLEOSIS
      21937278 PY<2002
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L14
=> s 112 and (PY<2002 or AY<2002 or PRY<2002)
        291173 CROSSLINK?
           369 GENIPIN
          1901 · PROANTHOCYANIDIN
           581 THREOSE
          6882 LYSYL
        126102 OXIDASE
          1085 LYSYL OXIDASE
                 (LYSYL(W)OXIDASE)
          2402 INTERVERTEBRAL
          8448 SPINE
         70537 SPINAL
             0 SCOLEOSIS
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       4194000 AY<2002
       3671084 PRY<2002
L15
             7 L12 AND (PY<2002 OR AY<2002 OR PRY<2002)
=> d 115 1-7 ti abs bib
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L15 ANSWER 1 OF 7 CAPLUS COPYRIGHT 2007 ACS on STN

FILE COVERS 1907 - 20 Dec 2007 VOL 147 ISS 26

- TI Direct application of non-toxic crosslinking reagents to restabilize surgically destabilized intervertebral joints
- AB A method of improving the resistance of collagenous tissue subject to elevated collagenous tissue stress as a result of tissue removing surgical decompression surgery, comprising contacting at least a portion of the remaining collagenous tissue with an effective amount of a crosslinking reagent. Efficacy of genipin in crosslinking of collagen lumbar intervertebral joints of calf spines is shown.
- AN 2007:968394 CAPLUS <<LOGINID::20071220>>
- DN 147:308334
- TI Direct application of non-toxic crosslinking reagents to restabilize surgically destabilized intervertebral joints
- IN Hedman, Thomas P.
- PA USA
- SO U.S. Pat. Appl. Publ., 12pp., Cont.-in-part of U.S. Ser. No. 712,684. CODEN: USXXCO
- DT Patent
- LA English
- FAN.CNT 5

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	US 2003049301	A1	20030313	US 2002-230671	20020829 <				
	US 2004253219	A1	20041216	US 2004-786861	20040224 <				
	US 2007183973	A1	20070809	US 2006-346464	20060202 <				
	US 2007196351	A1	20070823	US 2007-712684	20070228 <				
PRAI	US 2001-316287P	P	20010831	<	•				
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	US 2003-498790P	P	20030828						
	US 2004-786861	A2	20040224						
	US 2006-346464	A2	20060202						
	US 2007-712684	A2	20070228						

- L15 ANSWER 2 OF 7 CAPLUS COPYRIGHT 2007 ACS on STN
- TI Direct application of non-toxic crosslinking reagents to resist progressive spinal degeneration and deformity
- AB A method of treatment of native, non-denatured tissue to increase resistance to tearing, fissuring, rupturing, and/or delamination, comprising the step of: contacting at least a portion of the tissue with an effective amount of a reagent that increases crosslinks in the tissue. Nontoxic crosslinking reagents such as genipin reduce the fatigue-related degradation of intervertebral disk tissue due to repetitive, nontraumatic loading.
- AN 2007:942278 CAPLUS <<LOGINID::20071220>>
- DN 147:263521
- TI Direct application of non-toxic crosslinking reagents to resist progressive spinal degeneration and deformity
- IN Hedman, Thomas P.
- PA USA
- SO U.S. Pat. Appl. Publ., 19pp., Cont.-in-part of U.S. Ser. No. 346,464. CODEN: USXXCO
- DT Patent
- LA English
- FAN. CNT 5

F	AN.CNT 5				
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	US 2007202143	A1	20070830	US 2007-726790	20070322 <
Р	PRAI US 2001-316287P	P	20010831	<	
	US 2002-230671	A2	20020829		

US	2003-498790P	P	20030828
US	2004-786861	A2	20040224
US	2006-346464	A2	20060202
US	2007-712684	A2	20070228

- L15 ANSWER 3 OF 7 CAPLUS COPYRIGHT 2007 ACS on STN
- TI Natural collagens crosslinked with non-toxic crosslinking agents to resist progressive spinal deformity
- AB A method of improving the resistance of collagenous tissue to mech. degradation in accordance with the present invention comprises the step of contacting at least a portion of a collagenous tissue with an effective amount of a crosslinking reagent. Methods and devices for enhancing the body's own efforts to stabilize disks in scoliotic and other progressively deforming spines by increasing collagen crosslinks

. This stability enhancement is caused by reducing the bending hysteresis and increasing the elasticity and bending stiffness of progressively deforming spines, by injecting non-toxic crosslinking reagents into the convex side of disks involved in the potential or progressing deformity curve. Alternatively, contact between the tissue and the crosslinking reagent is effected by placement of a time-release delivery system directly into or onto the target tissue. Methods and devices that use crosslinking agents for increasing the permeability of an intervertebral disk, improving fluid flux to the intervertebral disk, and increasing the biol. Viability of cells within the intervertebral disk are provided.

- AN 2007:873614 CAPLUS <<LOGINID::20071220>>
- DN 147:220111
- TI Natural collagens crosslinked with non-toxic crosslinking agents to resist progressive spinal deformity
- IN Hedman, Thomas P.
- PA USA
- SO U.S. Pat. Appl. Publ., 17pp., Cont.-in-part of U.S. Ser. No. 786,861. CODEN: USXXCO
- DT Patent
- LA English
- FAN. CNT 5

CNT	5					•
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US	2007202143	A1	20070830	US	2007-726790	20070322 <
US	2001-316287P	P	20010831	<		
US	2002-230671	A2	20020829			
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- L15 ANSWER 4 OF 7 CAPLUS COPYRIGHT 2007 ACS on STN
- TI Non-toxic crosslinking reagents to resist curve progression in scoliosis and increase disc permeability
- AB A method of improving the resistance of collagenous tissue to mech. degradation in accordance with the present invention comprises the step of contacting at least a portion of a collagenous tissue with an effective amount of a crosslinking reagent, i.e., genipin, ribose, threose, and lysyl oxidase. Methods and devices for enhancing the body's own efforts to stabilize disks in scoliotic spines by increasing collagen crosslinks. This stability enhancement is caused by reducing the bending hysteresis and increasing the bending stiffness of scoliotic spines, by injecting

non-toxic crosslinking reagents into the convex side of disks involved in the scoliotic curve. Alternatively, contact between the tissue and the crosslinking reagent is affected by placement of a time-release delivery system directly into or onto the target tissue. Methods and devices that use crosslinking agents for increasing the permeability of an intervertebral disk, improving fluid flux to the intervertebral disk, and increasing the biol. viability of cells within the intervertebral disk are provided.

AN 2004:1080506 CAPLUS <<LOGINID::20071220>>

DN 142:62696

- TI Non-toxic crosslinking reagents to resist curve progression in scoliosis and increase disc permeability
- IN Hedman, Thomas P.
- PA University of Southern California, USA
- SO U.S. Pat. Appl. Publ., 15 pp., Cont.-in-part of U.S. Ser. No. 230,671. CODEN: USXXCO
- DT Patent
- LA English

FAN. CNT 5

PATENT NO.			KINI	D DA	DATE			APPLICATION NO.					DATE								
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	AU	20043	2686	28		A1	20	050	310		AU 2	004-	2686	28		20040827					
		25364				A1	20	050	0310	O CA 2004-2536415											
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	JP	2007	5041	62		\mathbf{T}			0301												
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- L15 ANSWER 5 OF 7 CAPLUS COPYRIGHT 2007 ACS on STN
- TI Use of non-toxic crosslinking reagents to improve fatigue resistance and reduce mechanical degradation of intervertebral disc and other collagenous tissues
- AB A method of improving the resistance of collagenous tissue to mech. degradation in accordance with the present invention comprises the step of contacting at least a portion of a collagenous tissue with an effective amount of a crosslinking reagent. The crosslinking reagent includes a crosslinking agent such as genipin and/or proanthocyanidin. Further, the crosslinking reagent may include a crosslinking agent in a carrier medium.

The collagenous tissue to be contacted with the crosslinking reagent is preferably a portion of an intervertebral disk or articular cartilage. The contact between the tissue and the crosslinking reagent is effected by injections directly into the select tissue using a needle. Alternatively, contact between the tissue and the crosslinking reagent is effected by placement of a time-release delivery system such as a gel or ointment, or a treated membrane or patch directly into or onto the target tissue. Contact may also be effected by, for instance, soaking.

AN 2003:202381 CAPLUS <<LOGINID::20071220>>

DN 138:226799

- TI Use of non-toxic crosslinking reagents to improve fatigue resistance and reduce mechanical degradation of intervertebral disc and other collagenous tissues
- IN Hedman, Thomas P.
- PA University of Southern California, USA
- SO PCT Int. Appl., 25 pp.

CODEN: PIXXD2

DT Patent

LA English

FAN. CNT 5

PATENT NO.					KIND DATE				APPLICATION NO.						DATE			
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WO 2002-US27677 W								REFERENCES AVAILABLE FOR THIS RECORD										
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- L15 ANSWER 6 OF 7 CAPLUS COPYRIGHT 2007 ACS on STN
- TI Effect of age on pyridinoline and pentosidine matrix cross-links in the desert sand rat intervertebral disk

ALL CITATIONS AVAILABLE IN THE RE FORMAT

AB Spondylosis in the desert sand rat (Psammomys obesus) has been studied as a model for intervertebral disk degeneration. Reducing sugars, which react with protein amino groups to form a diverse group of moieties with fluorescence and crosslinking properties, have been implicated in the structural and functional alterations of proteins that occur during aging and long-term diabetes. This study was undertaken to determine the changes in two matrix cross-links of the intervertebral disk and to study their association with aging. Two types of cross-links were studied: the physiol. cross-link, pyridinoline, which is initiated by lysyl oxidase; and the non-enzymically initiated cross-link, pentosidine. A significant increase in pentosidine, but not pyridinoline, was observed in the intervertebral disk with aging. Radiol., histol. and biochem. findings support a hypothesis that subchondral bone responses, marked by increased bone d., contribute to alterations in the intervertebral disk. Cross-link changes in

```
the structural proteins of the disk may contribute to the progressive
     fibrocartilage degradation typical of intervertebral disk disease as
     an effect of age.
     AN
     122:53235
DN
     Effect of age on pyridinoline and pentosidine matrix cross-links in the
TI
     desert sand rat intervertebral disk
     Pokharna, Hemlata K.; Boja, Betty; Monnier, Vincent; Moskowitz, Roland W.
AU
     School Medicine, Case Western Reserve University, Cleveland, OH, 44106,
CS
     USA
     Glycosylation & Disease (1994), 1(3), 185-90
SO
     CODEN: GLDIEI; ISSN: 0969-3653
DT
     Journal
     English
LA
    ANSWER 7 OF 7 CAPLUS COPYRIGHT 2007 ACS on STN
     Neonatal deaths and pulmonary dysplasia due to D-penicillamine in the rat
TI
     D-penicillamine [52-67-5], Added to a low-Cu diet through pregnancy or
AB
     given by gavage to pregnant rats which were on a Cu-deficient or a normal
     diet, produced fetal resorptions and malformations. Doses of 300-400
     mg/day for 6 days (days 9-14 of gestation) with a diet normal for Cu
     prevented maternal weight gain and at 350 or 400 mg/day caused fetal death on
     day 16 or 17. Forty percent of offspring had tracheobronchomegaly and 42%
     had cystic lungs. Associated abnormalities included pleural hemorrhages, dilated esophagi, and unaerated lungs. The lungs had large, poorly
     formed, thick-walled acini without partitioning and a thick rim of
     connective tissue around vessels and bronchi. At the higher doses, all
     members of 1 of 12 litters had angulation of the spine and half
     the members of another litter had cleft palates. A postulated mechanism
     for these alterations in pulmonary connective tissue productive of
     malformations which model human tracheobronchomegaly and cystic lungs, is
     interference with lysyl oxidase, a Cu-requiring
     enzyme, which crosslinks elastin.
     1982:574666 CAPLUS <<LOGINID::20071220>>
AN
     97:174666
DN
OREF 97:28970h,28971a
     Neonatal deaths and pulmonary dysplasia due to D-penicillamine in the rat
TI
ΑU
     Kilburn, Kaye H.; Hess, Rex A.
     Mount Sinai Sch. Med., New York, NY, 10029, USA
CS
     Teratology (1982), 26(1), 1-9
SO
     CODEN: TJADAB; ISSN: 0040-3709
     Journal
DT
     English
LA
=> d his
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L2
          77240 S INTERVERTEBRAL OR SPINE OR SPINAL OR SCOLEOSIS
L3
            403 S L1 AND L3
1.4
             22 S L2 AND L3
L5
             11 S L1 AND L2 AND L3
L6
            187 S L4 AND (PY<2002 OR AY<2002 OR PRY<2002)
L7
             11 S L5 AND (PY<2002 OR AY<2002 OR PRY<2002)
L8
              7 S L6 AND (PY<2002 OR AY<2002 OR PRY<2002)
L9
     FILE 'STNGUIDE' ENTERED AT 15:56:25 ON 20 DEC 2007
     FILE 'HCAPLUS' ENTERED AT 15:57:15 ON 20 DEC 2007
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3922 S GENIPIN OR PROANTHOCYANIDIN OR THREOSE OR (LYSYL OXIDASE)

L10

23 S L10 AND L3 Lll

12 S L1 AND L10 AND L3 L12

FILE 'STNGUIDE' ENTERED AT 15:57:21 ON 20 DEC 2007

FILE 'CAPLUS' ENTERED AT 15:57:30 ON 20 DEC 2007

2366 S L10 AND (PY<2002 OR AY<2002 OR PRY<2002) L13

11 S L11 AND (PY<2002 OR AY<2002 OR PRY<2002) L14

7 S L12 AND (PY<2002 OR AY<2002 OR PRY<2002) L15

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COST IN U.S. DOLLARS SINCE FILE TOTAL ENTRY SESSION

92.77 86.61 FULL ESTIMATED COST

SINCE FILE TOTAL DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS) SESSION ENTRY

-5.46 -5.46 CA SUBSCRIBER PRICE

SESSION WILL BE HELD FOR 120 MINUTES STN INTERNATIONAL SESSION SUSPENDED AT 15:58:15 ON 20 DEC 2007

Connecting via Winsock to STN

Welcome to STN International! Enter x:x

LOGINID:SSPTAEXO1623

PASSWORD:

* * * * * * RECONNECTED TO STN INTERNATIONAL * * * * * SESSION RESUMED IN FILE 'CAPLUS' AT 16:03:33 ON 20 DEC 2007 FILE 'CAPLUS' ENTERED AT 16:03:33 ON 20 DEC 2007 COPYRIGHT (C) 2007 AMERICAN CHEMICAL SOCIETY (ACS)

COST IN U.S. DOLLARS	SINCE FILE ENTRY 86.61	TOTAL SESSION 92.77
FULL ESTIMATED COST	86.61	92.11
DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	SINCE FILE ENTRY	TOTAL SESSION
CA SUBSCRIBER PRICE	-5.46	-5.46
=> file hcaplus COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	87.55	93.71
DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	SINCE FILE ENTRY	TOTAL SESSION
CA SUBSCRIBER PRICE	-5.46	-5.46

FILE 'HCAPLUS' ENTERED AT 16:04:58 ON 20 DEC 2007 USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT. PLEASE SEE "HELP USAGETERMS" FOR DETAILS. COPYRIGHT (C) 2007 AMERICAN CHEMICAL SOCIETY (ACS)

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FILE COVERS 1907 - 20 Dec 2007 VOL 147 ISS 26 FILE LAST UPDATED: 19 Dec 2007 (20071219/ED)

New CAS Information Use Policies, enter HELP USAGETERMS for details.

This file contains CAS Registry Numbers for easy and accurate substance identification.

=> s scoliosis

L16 457 SCOLIOSIS

=> s l1 and l16

L17 9 L1 AND L16

=> s 11 and 110 and 116

L18 2 L1 AND L10 AND L16

=> s 118 and (PY<2002 or AY<2002 or PRY<2002)

21937278 PY<2002 4194000 AY<2002 3671084 PRY<2002

L19 2 L18 AND (PY<2002 OR AY<2002 OR PRY<2002)

=> file stnguide

COST IN U.S. DOLLARS

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2.60 96.31

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)

CA SUBSCRIBER PRICE

SINCE FILE TOTAL
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0.00 -5.46

FILE 'STNGUIDE' ENTERED AT 16:05:04 ON 20 DEC 2007 USE IS SUBJECT TO THE TERMS OF YOUR CUSTOMER AGREEMENT COPYRIGHT (C) 2007 AMERICAN CHEMICAL SOCIETY (ACS)

FILE CONTAINS CURRENT INFORMATION.
LAST RELOADED: Dec 18, 2007 (20071218/UP).

=> d l17 1-9 ti YOU HAVE REQUESTED DATA FROM FILE 'HCAPLUS' - CONTINUE? (Y)/N:y

- L17 ANSWER 1 OF 9 HCAPLUS COPYRIGHT 2007 ACS on STN
- TI Natural collagens crosslinked with non-toxic crosslinking agents to resist progressive spinal deformity
- L17 ANSWER 2 OF 9 HCAPLUS COPYRIGHT 2007 ACS on STN
- TI Polymer compositions comprising a antifibrotic or an antiinfective agent
- L17 ANSWER 3 OF 9 HCAPLUS COPYRIGHT 2007 ACS on STN
- TI Method for the treatment of connective tissue diseases

- L17 ANSWER 4 OF 9 HCAPLUS COPYRIGHT 2007 ACS on STN
- TI Mutations Near Amino End of $\alpha l(I)$ Collagen Cause Combined Osteogenesis Imperfecta/Ehlers-Danlos Syndrome by Interference with N-propeptide Processing
- L17 ANSWER 5 OF 9 HCAPLUS COPYRIGHT 2007 ACS on STN
- TI Corrosion of spinal implants retrieved from patients with scoliosis
- L17 ANSWER 6 OF 9 HCAPLUS COPYRIGHT 2007 ACS on STN
- TI Non-toxic crosslinking reagents to resist curve progression in scoliosis and increase disc permeability
- L17 ANSWER 7 OF 9 HCAPLUS COPYRIGHT 2007 ACS on STN
- TI The kyphoscoliotic type of Ehlers-Danlos syndrome (type VI): differential effects on the hydroxylation of lysine in collagens I and II revealed by analysis of cross-linked telopeptides from urine
- L17 ANSWER 8 OF 9 HCAPLUS COPYRIGHT 2007 ACS on STN
- TI Collagen crosslinking and cartilage glycosaminoglycan composition in normal and scoliotic chickens
- L17 ANSWER 9 OF 9 HCAPLUS COPYRIGHT 2007 ACS on STN
- TI Scoliosis in chickens: responsiveness of severity and incidence to dietary copper
- => d 117 2 3 5 8 9 ti abs bib
 YOU HAVE REQUESTED DATA FROM FILE 'HCAPLUS' CONTINUE? (Y)/N:y
- L17 ANSWER 2 OF 9 HCAPLUS COPYRIGHT 2007 ACS on STN
- TI Polymer compositions comprising a antifibrotic or an antiinfective agent
- AB Polymer compns. comprise a therapeutic agents such as antifibrotic or an antiinfective agent. Microspheres of mycophenolic acid-PVA were prepared and the average particle size distribution was determined
- AN 2005:493532 HCAPLUS <<LOGINID::20071220>>
- DN 143:32339
- TI Polymer compositions comprising a antifibrotic or an antiinfective agent
- IN Hunter, William L.; Gravett, David M.; Toleikis, Philip M.; Maiti, Arpita; Liggins, Richard T.; Takacs-Cox, Aniko; Avelar, Rui; Loss, Troy A. E.
- PA Angiotech International A.-G., Switz.
- SO PCT Int. Appl., 1945 pp. CODEN: PIXXD2
- DT Patent
- LA English
- FAN.CNT 19

PI WO 2005051452 A2 20050609 WO 2004-US39389 W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BS, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FS, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KI, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MS, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, ST, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CS, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LU, MC, NL, PS, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GR, NE, SN, TD, TG																						
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     WO 2004-US39183
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    ANSWER 3 OF 9 HCAPLUS COPYRIGHT 2007 ACS on STN
     Method for the treatment of connective tissue diseases
     Method is disclosed for the treatment of collagen diseases. The invention
     relates to a method for the treatment of connective tissue diseases
     associated with weakening or damage of collagen tissue due to disease, injury
     or mech. stress by the application of a proteoglycan and electromagnetic
     radiation. The treatment phys. and visually repairs the weakened or
     damaged tissue in vivo or in vitro and may be used on any animal having
     and collagen tissue.
     2005:405328 HCAPLUS <<LOGINID::20071220>>
     142:423912
     Method for the treatment of connective tissue diseases
     Pineau, Mitchell; Birchem, Gerald; Bon, Edwin
     Visionary Biomedical, Inc., USA
     PCT Int. Appl., 13 pp.
     CODEN: PIXXD2
     Patent
     English
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     PATENT NO.
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                                20050512 WO 2003-US34775 20031103
     WO 2005041662
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         OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, UZ, VC, VN, YU, ZA, ZM, ZW
         RW: BW, GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG
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- THERE ARE 2 CITED REFERENCES AVAILABLE FOR THIS RECORD RE.CNT 2 ALL CITATIONS AVAILABLE IN THE RE FORMAT
- ANSWER 5 OF 9 HCAPLUS COPYRIGHT 2007 ACS on STN L17

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- Corrosion of spinal implants retrieved from patients with TI scoliosis
- Spinal implants retrieved from 11 patients with scoliosis were AΒ examined All the implants were posterior instrumentation systems made of 316L stainless steel and composed of rods, hooks, and crosslink connectors. Corrosion was classified into grades 0 to 3 based on macroscopic findings of the rod surface at the junction of each hook or crosslink connector. Grade 0 was defined as no sign of corrosion, grade 1 as surface discoloration, grade 2 as superficial metal loss, and grade 3 as severe metal loss. The depths and characteristics of metal loss areas were examined Spinal implants showed more corrosion after long-term implantation than after short-term implantation. Corrosion was seen on many of the rod junctions (66.2%) after long-term implantation,

but there was no difference between the junction at the hook and those at the crosslink connector. It is thought that intergranular corrosion and fretting contributed to the corrosion of implants. The current study demonstrated that corrosion takes place at many of the rod junctions in long-term implantation. The authors recommend removal of the spinal implants after solid bony union.

- AN 2005:297335 HCAPLUS <<LOGINID::20071220>>
- DN 144:198449
- TI Corrosion of spinal implants retrieved from patients with scoliosis
- AU Akazawa, Tsutomu; Minami, Shohei; Takahashi, Kazuhisa; Kotani, Toshiaki; Hanawa, Takao; Moriya, Hideshige
- CS Department of Orthopedic Surgery, Graduate School of Medicine, Chiba University, 1-8-1 Inohana, Chuo-ku, Chiba, 260-8670, Japan
- SO Journal of Orthopaedic Science (2005), 10(2), 200-205 CODEN: JOSCFS; ISSN: 0949-2658
- PB Springer Tokyo
- DT Journal
- LA English
- RE.CNT 14 THERE ARE 14 CITED REFERENCES AVAILABLE FOR THIS RECORD ALL CITATIONS AVAILABLE IN THE RE FORMAT
- L17 ANSWER 8 OF 9 HCAPLUS COPYRIGHT 2007 ACS on STN
- TI Collagen crosslinking and cartilage glycosaminoglycan composition in normal and scoliotic chickens
- The amts. of lysine-derived crosslinks in collagens from tendon, AB cartilage, intervertebral disk, and bone and changes in the composition of sternal cartilage glycosaminoglycans were estimated in two lines of chickens, a control-isogenic line and a line that develops scoliosis. In the scoliotic line, scoliosis first appears at 3-4 wk and progressively increases in severity and incidence so that 90% of the birds express the lesion by week 10. It was reported previously that cartilage, tendon, and bone collagens from scoliotic birds are more soluble than corresponding collagens from normal birds. Herein, collagen crosslinking and altered proteoglycan metabolism are examined as possible mechanisms for the differences in collagen solubility At 1 wk of age, there were fewer reducible crosslinking amino acids (hydroxylsinonorleucine, dihydroxylysinonorleucine, and lysinonorleucine) in collagens from sternal cartilage and tendon in the scoliotic line than in the isogenic line. However, by week 3 and at weeks 5 or 7 values were similar in both groups. The amts. of hydroxypyridinium in vertebral bone and intervertebral disk collagen were also similar in both groups of birds. Consequently, differences in collagen crosslinking do not appear to be a persistent developmental defect underlying the expression of scoliosis in the model. However, differences were observed in cartilage proteoglycans and glycosaminoglycans from the scoliotic line that were not present in cartilage from the isogenic line. The average mol. weight of the uronide-containing glycosaminoglycans was 30% less in the scoliotic line than in the isogenic line, i.e., 12,000 compared to 18,000. The size distribution of cartilage proteoglycans from the scoliotic line also differed from that of proteoglycans from the isogenic line. An overly sulfated chondroitin also appeared to be a minor component of the glycosaminoglycans in cartilage from the scoliotic line. This chondroitin was not observed in cartilage from the isogenic line of chickens.
- AN 1989:21883 HCAPLUS <<LOGINID::20071220>>
- DN 110:21883
- TI Collagen crosslinking and cartilage glycosaminoglycan composition in normal and scoliotic chickens
- AU Greve, Carl; Opsahl, William; Reiser, Karen; Abbott, Ursula; Kenney, Cristina; Benson, Daniel; Rucker, Robert
- CS Dep. Nutr., Univ. California, Davis, CA, 95616, USA
- SO Biochimica et Biophysica Acta, General Subjects (1988), 967(2), 275-83 CODEN: BBGSB3; ISSN: 0304-4165
- DT Journal

LA English

- L17 ANSWER 9 OF 9 HCAPLUS COPYRIGHT 2007 ACS on STN
- TI Scoliosis in chickens: responsiveness of severity and incidence to dietary copper
- The severity and incidence of spinal lesions were manipulated in a line of chickens susceptible to scoliosis by varying their dietary intake of Cu. A decrease in expression of the lesion was related to increased intake of Cu. The change in expression, however, appeared to be related only indirectly to the defects in collagen crosslinking, maturation, and deposition known to be associated with dietary Cu deficiency. Thus, a dietary constituent in the range of normal intakes may act as an environmental factor in the expression of scoliosis.
- AN 1984:489373 HCAPLUS <<LOGINID::20071220>>
- DN 101:89373
- TI Scoliosis in chickens: responsiveness of severity and incidence to dietary copper
- AU Opsahl, William; Abbott, Ursula; Kenney, Cristina; Rucker, Robert
- CS Dep. Nutr., Univ. California, David, CA, 95616, USA
- SO Science (Washington, DC, United States) (1984), 225(4660), 440-2 CODEN: SCIEAS; ISSN: 0036-8075
- DT Journal
- LA English